Section - B

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(Short Answers)

Note: Answer any EIGHT of the following questions. Each question carries 05 marks.

- Q.2 Explain the word Physics and define what is Physics?
- Q.3 Describe briefly the main causes of Friction.
- Q.4 What is the difference between real and virtual image?
- Q.5 How many conditions of Equilibrium? Briefly explain.
- Q.6 What is Law of Gravitation?
- Q.7 How is Rainbow formed?
- Q.8 To what kind of lever the following machines belong:

 Door Human arm Forceps Sea saw Upper and lower jaws of mouth.
- Q.9 An empty truck weight 4000 N its engine can produce a maximum acceleration of 1ms⁻².

If the truck is loaded with 2000 N. Find the maximum acceleration the engine can produce.

- Q.10 Drive the equation: $2aS = V_f^2 V_i^2$
- Q.11 Define reflection of light.
- Q.12 Define electric current and write its equation.
- Q.13 What are the defect of vision? Explain only one.

Section - C

(Descriptive Answers)

Note: Answer any TWO of the following questions: Each question carries 14 (7 + 7) marks.

- Q.14 (a) How is the sound produce and what is the range of frequency of audible sound?
- (b) The potential difference between two terminals is about 220 volts and the current flow is 2 amperes. Find the resistance.
- Q.15 (a) Describe the anomalous expansion of water.
- (b) Find the acceleration of a body whose velocity increase from 11ms⁻¹ to 33ms⁻¹ in 10 second.
- Q.16 Write notes on any Two of the following.
 - (i) Mass of Earth
 - (ii) Archimede's Principles
 - (iii) Wave Motion